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(71)Applicant : SONY CORP

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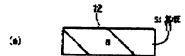
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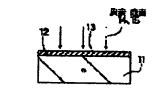
(4) EPITAXIAL SILICON BOARD AND SOLID-STATE IMAGE PICKUP DEVICE AND ANUFACTURE THEREOF

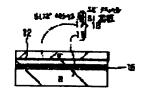
7)Abstract:

ROBLEM TO BE SOLVED: To provide an epitaxial Si board herein metal impurities are effectively removed from an Si pitaxial layer and a solid-state image pickup device of less hite dot defects.

OLUTION: After carbon 14 is subjected to ion implantation an Si board 11 at a dose amount of 5 × 1013 atomic cm-2 more and oxygen 15 is subjected to ion implantation at the se amount of the carbon 14 or more, an Si epitaxial layer 17 formed and an epitaxial Si board 18 is manufactured. ompound of the carbon 14 and the oxygen 15 is formed in e Si board 11 and becomes a getter sink, metal impurities e effectively removed from the Si epitaxial layer 17 and a slid-state image sensing device formed in the epitaxial Si ard 18 has less white dot defects.







GAL STATUS

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